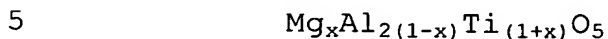


CLAIMS

1. A process for producing a sintered body comprising as a basic component aluminum magnesium titanate represented by the composition formula:

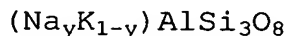


wherein the value of x is $0.1 \leq x < 1$,

the process comprising a step of sintering a formed product from a raw material mixture comprising the ingredients (i) and (ii) below:

10 (i) 100 parts by weight, calculated on an oxide basis, of a mixture comprising a Mg-containing compound, an Al-containing compound and a Ti-containing compound at the same metal component ratio as the metal component ratio of Mg, Al and Ti in the composition formula,

15 (ii) 1-10 parts by weight of an alkali feldspar represented by the composition formula:



wherein the value of y is $0 \leq y \leq 1$.

2. A process of producing a sintered body of
20 aluminum magnesium titanate according to claim 1, wherein the value of x in the composition formula: $\text{Mg}_x\text{Al}_{2(1-x)}\text{Ti}_{(1+x)}\text{O}_5$ is $0.25 \leq x \leq 0.75$.

3. A process of producing a sintered body of
aluminum magnesium titanate according to claim 1, wherein
25 the value of y in the composition formula: $(\text{Na}_y\text{K}_{1-y})\text{AlSi}_3\text{O}_8$

is $0.15 \leq y \leq 0.85$.

4. A process of producing a sintered body of aluminum magnesium titanate according to claim 1, wherein a sintering temperature is 1000-1700°C.

5 5. A sintered body of aluminum magnesium titanate which is obtainable by the process of claim 1.